

Dental Laboratories: 2002

Issued December 2004

EC02-311-339116 (RV)

2002 Economic Census

Manufacturing

Industry Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix

Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	--
7. Materials Consumed by Kind: 2002 and 1997.....	8

Appendixes

A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
339116, Dental laboratories 2002..	6 918	7 089	49 722	1 531 930	36 759	68 801	1 076 013	2 818 379	644 966	3 463 420	'94 743
2001..	N	N	47 968	1 345 659	35 160	72 172	923 837	2 392 848	670 127	3 044 267	78 764
2000..	N	N	45 940	1 245 002	33 907	65 071	858 729	2 191 977	649 518	2 821 584	82 116
1999..	N	N	43 445	1 155 731	32 853	61 695	793 287	2 049 326	583 424	2 640 544	82 957
1998..	N	N	51 608	1 271 416	39 703	73 652	894 215	2 536 251	994 127	3 580 395	73 711
1997..	7 490	7 609	41 154	1 023 634	30 585	50 847	647 331	2 152 698	797 235	2 983 574	73 734

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
339116, Dental laboratories												
United States	3	7 089	475	49 722	1 531 930	36 759	68 801	1 076 013	2 818 379	644 966	3 463 420	'94 743
Alabama	3	107	7	807	20 216	636	995	14 263	36 714	8 125	44 730	'1 313
Arizona	4	153	11	917	27 018	714	1 321	19 825	48 165	11 752	59 571	'1 662
Arkansas	2	52	2	361	10 930	260	520	7 698	21 455	4 591	26 013	'545
California	3	1 046	65	9 703	334 491	6 922	13 342	227 222	693 915	160 514	850 212	'14 980
Colorado	3	147	6	908	27 950	647	1 235	18 792	56 232	11 003	66 170	'1 759
Connecticut	7	83	10	904	28 320	640	1 222	18 223	45 555	8 905	54 361	'1 668
Florida	4	518	23	2 536	72 302	1 898	3 369	50 258	125 838	31 005	155 411	'4 734
Georgia	4	218	18	1 694	52 108	1 265	2 373	36 521	86 023	19 661	105 622	'2 817
Hawaii	2	37	2	208	6 211	146	279	4 755	10 544	2 410	12 947	'325
Illinois	3	299	23	1 959	58 369	1 433	2 711	41 368	97 713	21 882	119 415	'3 153
Iowa	2	62	3	425	11 501	312	553	8 051	20 232	4 643	24 942	'480
Kansas	3	57	10	771	24 309	605	1 215	17 626	45 600	9 585	55 150	'1 108
Kentucky	2	81	6	435	13 051	327	589	9 429	26 521	5 325	31 850	'852
Louisiana	4	82	6	578	15 616	449	798	11 219	26 520	6 802	33 108	'954
Maine	3	23	3	148	3 947	119	205	3 051	7 318	1 392	8 673	'212
Maryland	4	110	5	521	16 273	388	740	11 713	27 921	6 410	34 333	'984
Massachusetts	6	145	11	1 253	41 102	958	1 872	29 774	65 961	15 763	81 273	'2 108
Michigan	3	222	14	1 730	51 772	1 303	2 326	38 486	93 343	21 209	114 699	'2 959
Minnesota	2	137	23	1 552	50 394	1 164	2 251	37 040	85 446	18 670	103 662	'3 296
Mississippi	4	49	3	273	7 620	212	415	5 373	14 077	3 177	17 159	'559
Missouri	2	141	14	986	28 236	784	1 352	21 272	49 050	10 313	57 882	'1 238
Nevada	2	48	3	261	7 959	206	335	6 218	12 106	3 036	16 719	'555
New Jersey	4	214	15	1 242	41 221	907	1 687	29 232	68 212	16 614	87 372	'1 831
New York	4	437	31	3 148	97 874	2 240	4 393	65 090	179 115	44 906	224 474	'11 804
North Carolina	3	234	8	1 181	37 286	855	1 624	25 107	61 329	13 034	74 392	'1 848
Ohio	4	226	20	1 468	40 995	1 095	1 965	29 825	67 811	15 831	84 466	'3 006
Oklahoma	3	70	3	318	8 923	249	433	6 266	15 085	3 348	18 461	'506
Oregon	5	134	6	952	28 517	698	1 253	19 395	51 577	11 053	62 750	'1 850
Pennsylvania	2	231	20	1 869	58 835	1 406	2 751	40 828	127 956	26 521	153 954	'6 508
South Carolina	4	59	1	310	10 454	236	466	6 705	17 624	3 041	20 615	'509
Tennessee	4	131	3	552	15 412	425	759	11 217	26 454	5 906	32 395	'1 078
Texas	4	376	24	2 318	66 755	1 717	3 214	47 481	111 794	29 758	142 930	'4 414
Utah	2	104	5	725	23 904	519	914	17 263	50 150	9 406	58 506	'958
Virginia	4	152	6	751	23 402	575	1 116	17 431	37 783	8 748	46 536	'2 237
Washington	4	270	17	1 565	47 281	1 174	2 156	33 891	84 554	18 317	102 684	'2 730
Wisconsin	2	130	16	1 301	36 978	967	1 871	27 121	69 948	15 114	84 874	'1 593

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
339116, Dental laboratories	
Companies ¹	number.. 6 918
All establishments ²	number.. 7 089
Establishments with 1 to 19 employees	number.. 6 614
Establishments with 20 to 99 employees	number.. 433
Establishments with 100 employees or more	number.. 42
All employees ³	number.. 49 722
Total compensation	\$1,000.. 1 817 305
Annual payroll	\$1,000.. 1 531 930
Total fringe benefits	\$1,000.. 285 375
Production workers, average for year	number.. 36 759
Production workers on March 12	number.. 36 536
Production workers on May 12	number.. 36 750
Production workers on August 12	number.. 36 919
Production workers on November 12	number.. 36 770
Production worker hours	1,000.. 68 801
Production worker wages	\$1,000.. 1 076 013
Total cost of materials	\$1,000.. 644 966
Materials, parts, containers, packaging, etc., used	\$1,000.. 507 127
Resales	\$1,000.. 86 648
Purchased fuels	\$1,000.. 2 741
Purchased electricity	\$1,000.. 14 332
Contract work	\$1,000.. 34 118
Quantity of electricity purchased for heat and power	1,000 kWh.. 203 490
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 3 463 420
Primary products value of shipments	\$1,000.. 3 160 752
Secondary products value of shipments	\$1,000.. 100 540
Total miscellaneous receipts	\$1,000.. 202 128
Value of resales	\$1,000.. 167 629
Contract receipts	\$1,000.. 8 844
Other miscellaneous receipts	\$1,000.. 25 655
Primary products specialization ratio	percent.. 97
Value of primary products shipments made in all industries	\$1,000.. 3 178 066
Value of primary products shipments made in this industry	\$1,000.. 3 160 752
Value of primary products shipments made in other industries	\$1,000.. 17 314
Coverage ratio	percent.. 99
Value added	\$1,000.. 2 818 379
Total inventories, beginning of year	\$1,000.. 231 103
Finished goods inventories	\$1,000.. 106 923
Work-in-process inventories	\$1,000.. 57 186
Materials and supplies inventories	\$1,000.. 66 994
Total inventories, end of year	\$1,000.. 251 023
Finished goods inventories	\$1,000.. 104 765
Work-in-process inventories	\$1,000.. 59 269
Materials and supplies inventories	\$1,000.. 86 989
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 1788 516
Total capital expenditures (new and used)	\$1,000.. 194 743
Buildings and other structures (new and used)	\$1,000.. 113 107
Machinery and equipment (new and used)	\$1,000.. 81 636
Automobiles, trucks, etc., for highway use	\$1,000.. 10 159
Computers and peripheral data processing equipment	\$1,000.. 10 487
All other expenditures for machinery and equipment	\$1,000.. 160 990
Total retirements	\$1,000.. 142 506
Gross value of depreciable assets at end of year	\$1,000.. 1840 753
Depreciation charges during year	\$1,000.. 162 063
Total rental payments	\$1,000.. 85 371
Buildings and other structures	\$1,000.. 54 800
Machinery and equipment	\$1,000.. 30 571
Total other expenses ⁴	\$1,000.. 210 054
Response coverage ratio ⁵	percent.. 70
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 9 235
Communications services ⁴	\$1,000.. 7 878
Legal services ⁴	\$1,000.. 1 709
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 8 582
Advertising and promotional services ⁴	\$1,000.. 9 327
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 3 229
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 1 153
Management consulting and administrative services ⁴	\$1,000.. 4 550
Taxes and license fees ⁴	\$1,000.. 9 148
All other expenses ⁴	\$1,000.. 155 242

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
339116, Dental laboratories											
All establishments	3	7 089	49 722	1 531 930	36 759	68 801	1 076 013	2 818 379	644 966	3 463 420	'94 743
Establishments with—											
1 to 4 employees	9	5 054	9 704	280 817	7 325	13 324	194 980	483 887	100 798	584 455	'16 335
5 to 9 employees	3	913	6 116	179 462	4 605	8 388	129 618	321 408	81 630	403 014	'10 951
10 to 19 employees	2	647	8 679	247 955	6 454	11 688	182 863	450 114	112 316	563 759	'15 701
20 to 49 employees	2	341	10 003	303 095	7 474	13 842	219 790	524 331	123 613	651 328	'17 566
50 to 99 employees	2	92	6 115	200 248	4 385	8 489	134 903	337 927	78 558	414 580	'14 552
100 to 249 employees	3	35	4 718	147 531	3 467	6 793	100 472	261 151	52 227	311 346	'11 075
250 to 499 employees	—	4	g	D	D	D	D	D	D	D	D
500 to 999 employees	3	2	g	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	4 822	10 069	291 166	7 643	13 951	202 084	494 863	102 152	595 847	'16 919

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
339116	Dental laboratories	7 089	49 722	1 531 930	36 759	68 801	1 076 013	2 818 379	644 966	3 463 420	'94 743
3391160	Dental laboratories	7 089	49 722	1 531 930	36 759	68 801	1 076 013	2 818 379	644 966	3 463 420	'94 743

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
339116	Dental laboratories	2002.. N	X	X	3 178 066
	1997.. N		X	X	2 707 433
3391160	Dental laboratories	2002.. N	X	X	3 178 066
	1997.. N		X	X	2 707 433
33911601	Dental laboratory supplies	2002.. N	X	X	1 973 907
	1997.. N		X	X	1 297 360
3391160100	Artificial teeth, bridges, crowns, dentures, and other orthodontic appliances that are customized for individual application (prescription basis)	2002.. 1 409	X	X	1 973 907
	1997.. 1 171		X	X	1 297 360
3391160Y	Dental laboratories, nsk, total	2002.. N	X	X	1 204 159
	1997.. N		X	X	1 410 073
3391160YWW	Dental laboratories, nsk, for nonadministrative-record establishments	2002.. N	X	X	594 713
	1997.. N		X	X	331 330
3391160YWY	Dental laboratories, nsk, for administrative-record establishments	2002.. N	X	X	609 446
	1997.. N		X	X	1 078 743

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
339116	Dental laboratories		
00900001	Total materials .....2002..	X	507 127
	.....1997..	X	611 391
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 895
	.....1997..	X	N
33200082	Fabricated metal products (excluding forgings and castings) .....2002..	X	15 826
	.....1997..	X	N
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) .....2002..	X	75 402
	.....1997..	X	N
32500006	Chemical, all types (including resins) .....2002..	X	13 318
	.....1997..	X	N
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	6 753
	.....1997..	X	N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components .....2002..	X	1 245
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	3 066
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	72 518
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	314 104
	.....1997..	X	N

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.